The Trials and Tribulations of Developing an In-House Customized Municipal GIS Web Site using the ArcGIS Server API 2.0 for Silverlight

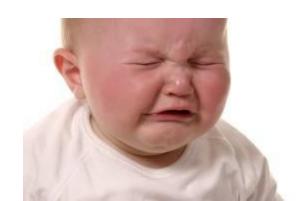
Live Audience Cam



Why Silverlight?

Why Me?

Why, why me???



Site Specs

- Visual Studio 2010
- Silverlight 4
- .Net 4
- ArcGIS Silverlight API 2.0
- WCF RIA Service 1.0

Who am I?



Decision Time

- Who builds it?
- Which API?
- Which language?
- Which template?
- Which database connection?





In-house vs. Vendor



VS.

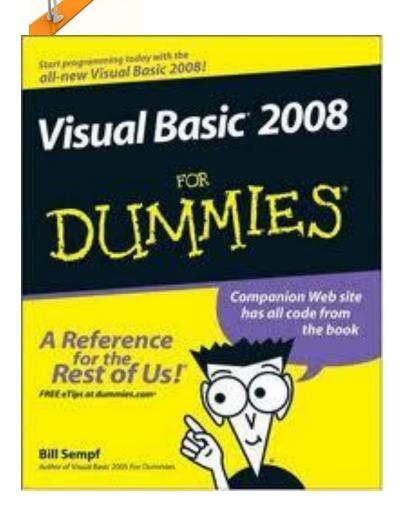




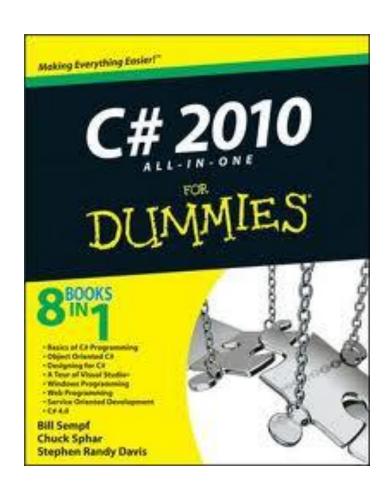
Silverlight vs. Flex



VB vs. C#



VS.



C# has a lot more sample code (both ESRI and others)



Business vs. Navigation template

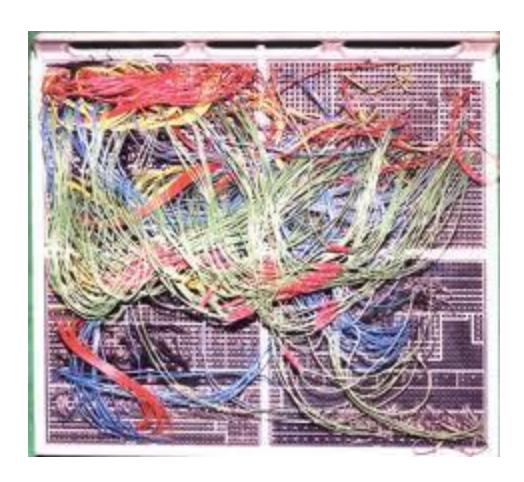
Log-in vs. no Log-in





How to connect to the database

- ADO.NET (no)
- LINQtoSQL
- WCF RIA Services



What does WCF RIA stand for and who really cares?

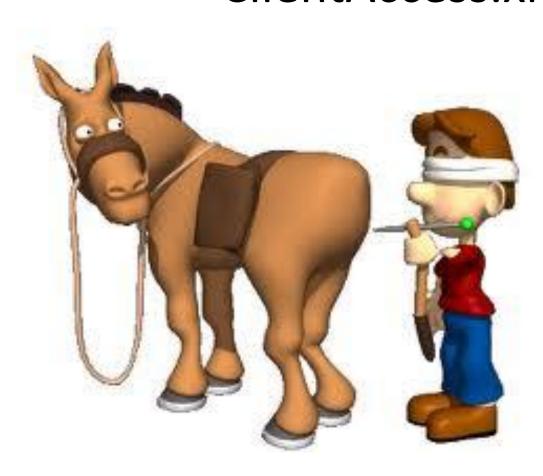
- WCF = Windows Communication Framework
- RIA = Rich Internet Application
- N-tier solution
 - Presentation tier (Silverlight)
 - Middle tier (asp.net)
 - Database tier (SQL Server 2008)
- Net RIA services sounded cooler

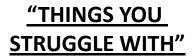
"Things you struggle with"





Where to put the ClientAccess.xml file







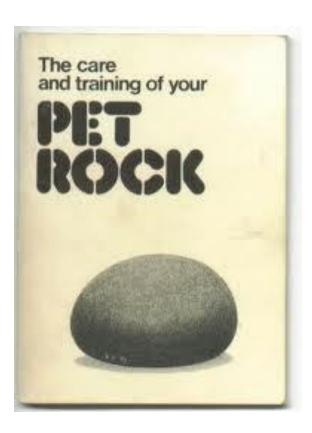
Making database changes



WCF RIA Services not great at this

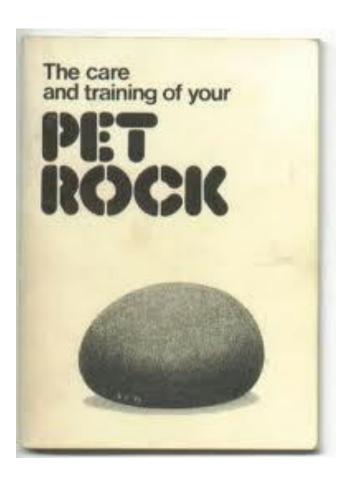


Default ID button





Find Address Tool

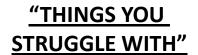




"Moving at the speed of government..."



"Reduce XAP size by using application library caching"





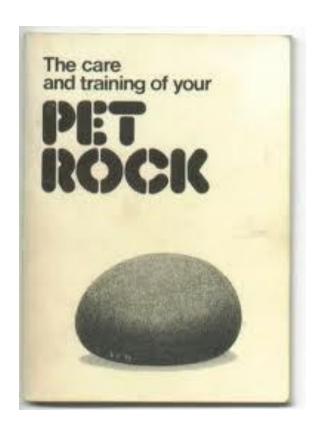
Running Asp.net 2 and 4 on same server



Use application pools in IIS



Printing in Silverlight





What's my server?



myHost = Application.Current.Host.Source.Host;





Layers going to sleep



Set the maximum time an idle instance can be kept running = 0



800 x 600



string screenWidth = HtmlPage.Window.Eval("screen.width").ToString();



Mouse-less laptops





More things to struggle with

- •Selection tool arrays
- Disclaimer popup window
- Publishing to server







More things to struggle with

- Clear Map Cache who knew
 - http://giswebsrvr/ArcGIS/rest/admin/login
- Stepping (too far) away from application
- Internet solutions quickly out-dated







Colors, buttons, and placement of tools drove me crazy



Punch list



- •Layers on/layers off code behind
- Measure Tool
- Sales Comparables
- Street Name dropdown list
- •As of Friday, Intellisense stopped working (Darn that Bill Gates!)

In conclusion

- Silverlight vs. Flex
- In-house vs. Vendor
- VB vs. C#
- Password protected?
- Database connectivity
- Printing in Silverlight
- Be prepared to troubleshoot

There's no place like 127.0.0.1



